Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

AMILO Notebook Xi 3650
The art of entertainment

Experience impressive entertainment, exciting new technologies, inspiring innovations and features unified in the AMILO Notebook X series.

Key Features

Model: Reveal white

Processor technology
■ Latest Intel® Centrino® 2 processor technology with Intel® Core™ 2 Duo processor for high-definition digital entertainment experience, blistering performance, longer-lasting battery life and the new wireless standard for connectivity

Operating System
■ Windows Vista® Home Premium

Innovation
■ NVIDIA® GeForce® 9600M GT graphic card with 512 MB GDDR3 dedicated high-speed VRAM deliver the ultimate balance between mobility and performance for astounding HD playback capabilities combined with 3D features to enable visually-intense applications and games
■ NVIDIA HybridPower™ technology allows you to unleash graphics performance when you need it, or instantly switch gears to a lower power mode from the motherboard GPU for longer battery life and quieter operation. This reduces system power consumption dramatically and extends battery life by up to 25% longer

Reliability
■ Spill-proof keyboard to protect your notebook against accidentally spilt liquids
- Enough time to shut down the notebook
- Have the liquid removed from the notebook
- Protects your investment and your data
■ Engineered in Germany means the test center in Germany tests conformity to international standards and customer-specific requirements
■ A+ grade LCD panels for better picture quality

Model: Eclipse black

Ease of use
■ Silent mode function that causes a noticeable reduction in fan noise
■ Multimedia LightTouch™ bar and integrated Vista remote control let you easily play, stop or pause your DVDs or music CDs

Multimedia and Entertainment
■ 18.4-inch HD+ or Full HD display with 16:9 aspect ratio and BrilliantView technology that provides vivid colors, amazing sharpness and impressive contrast
■ The integrated AMILOcam (1.3 mega pixels) with low-light technology for great video quality even in low-light conditions and the built-in digital array microphone are perfect for Internet telephony (VoIP) and video chats
■ Connect the AMILO Notebook Xi 3650 to an external display via HDMI (with HDCP support)

Options
■ Integrated Blu-ray Disc™ drive for the ultimate entertainment experience
■ Dual hard disk drive with Raid 0/1 function
- Raid 0 function: implements data striping to provide the best possible performance
- Raid 1 function: defines disk mirroring for simultaneous writing of data on two disks, so if one drive becomes defect, all data can be accessed on the second drive

Green IT

Fujitsu Siemens Computers recommends Windows Vista® Home Premium

Operating system[1] and Recovery	
Operating system	Genuine Windows Vista® Home Premium (32-bit version)
Fujitsu Siemens Computers Recovery Program	Backup and restore the original status of the hard disk and create system restore disks
	or individual recovery media on CD or DVD are included
Product Design	
Color	Reveal white or eclipse black
Architecture	
System architecture	Intel® Centrino® 2 processor technology
Chipset	Intel® GM45 + ICH9M-Enhanced
Processors[1]	
Intel® Core™2 Duo processor	T5800 (2.0 GHz, 800 MHz FSB, 2 MB L2 cache)
	P7350 (2.0 GHz, 1066 MHz FSB, 3 MB L2 cache)
	P8400 (2.26 GHz, 1066 MHz FSB, 3 MB L2 cache)
	P8600 (2.4 GHz, 1066 MHz FSB, 3 MB L2 cache)
	T9400 (2.53 GHz, 1066 MHz FSB, 6 MB L2 cache)
Memory	2 SO-DIMM memory slots (no memory on board)
Memory speed	1066 MHz
Memory type	DDR 3 RAM
Memory modules	1024 or 2048 MB
Max. memory size[1, 2]	4096 MB
Drives	
Hard disk drive	
HDD type	SATA
HDD size	2.5-inch
HDD speed	5400 rpm
HDD cache	8 MB
HDD capacity[1]	250 or 320 GB with single HDD;
	500 (2x 250) or 640 (2x 320) GB with dual HDD
Option:	
HDD type	SATA
HDD size	2.5-inch
HDD speed	4200 rpm
HDD cache	8 MB
HDD capacity	500 GB with single HDD;
	1000 (2x 500) GB with dual HDD
Raid function (optional, if two HDDs are installed)	Raid 0: stripe set for performance
	Raid 1: mirroring for security
	Raid off: two physical HDDs
Optical disc drive[1] (built-in)	
ODD type	SATA
ODD technology	SuperMulti-format DVD burner with double layer (DL) support
ODD read speed	CD-ROM 24x, DVD-ROM 8x
ODD write speed	CD-R 24x, CD-RW 16x, DVD+R 8x, DVD-R 8x, DVD+RW 8x, DVD-RW 6x, DVD+R DL (8.5 GB) 4x, DVD-R DL (8.5 GB) 4x, DVD-RAM 5x
Blu-ray Disc™ (optional)[1]	
ODD technology	Built-in Blu-ray Disc™ drive incl. SuperMulti-format DVD burner with double layer (DL) support
ODD read speed	BD 1.6x, CD-ROM 24x, DVD-ROM 8x
ODD write speed	CD-R 8x, CD-RW 8x, DVD+R 8x, DVD+RW 4x, DVD-R 8x, DVD-RW 4x, DVD+R DL (8.5 GB) 2.4x, DVD-R DL (8.5 GB) 2x, DVD RAM 5x

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Display
Display type	BrilliantView LCD with dual lamp (90% NTSC)
Aspect ratio	16:9
Resolution type	Full HD
Display size	18.4-inch
Display resolution (intern)	1920 x 1080 pixels
Display resolution (extern)	1920 x 1200 pixels
Reaction time (typ.)	8 ms
Brightness (typ.)	300 NIT
Contrast (typ.)	800 :1
Compliance with standards	ISO 13406-2 class II

Option[1]
Display type	BrilliantView LCD
Aspect ratio	16:9
Resolution type	HD+
Display resolution (intern)	1680 x 945 pixels
Display resolution (extern)	1920 x 1200
Reaction time (typ.)	16 ms
Brightness (typ.)	200 NIT
Contrast (typ.)	600 :1
Compliance with standards	ISO 13406-2 class II

Graphics
Dedicated graphics (full name)	NVIDIA® GeForce® 9600M GT
Dedicated video memory	512 MB GDDR3, 1066 MHz
Onboard graphics chip	Mobile Intel® Graphics Media Accelerator 4500MHD
Shared video memory[3]	Up to 1295 MB (depending on installed main memory)
3D Benchmark 2006	Up to 5044 (depending on configuration)
Graphic features	■ NVIDIA® HybridPower™ technology (hybrid graphic technology)
	■ NVIDIA® PureVideo® HD technology
	■ DirectX® 10 support

Interfaces
Video	1x HDMI (1.3) (incl. HDCP and S/PDIF out), 1x VGA
Audio	Front: 1x line in, 1x microphone in, 1x line out /headphone out,
	Side: 1x line out / S/PDIF out
Network	1x LAN (RJ-45)
Data	1x eSATA combined with USB 2.0, 3x USB 2.0,
	1x IEEE1394 (FireWire™), 1x CIR,
	1x ExpressCard slot (54 / 34 mm),
	1x 15-in-1 card reader[4]
	SD, miniSD, MicroSD, SDHC,
	MS, MS-Duo,
	MMC, RS-MMC, MMC-Micro,
	MSPRO, MS-PRO Duo, MS-Pro HG, MS-Pro HG Duo, M2,
	xD picture card
Power supply	1x DC-in

Communication
Integrated Bluetooth®	2.1
LAN (Local Area Network)	Gigabit Ethernet LAN (10 / 100 / 1000 Mbps)
Built-in WLAN (Wireless Local Area Network)	Yes
WLAN brand name	Intel® WiFi Link 5100 AGN
WLAN type	draft-n 802.11a/g/n
WLAN max. data rate	up to 300 Mbps
WLAN encryption	WEP, WPA and WPA2
For use in	BE, CH, DK, DE, EE, FI, FR, EL, IE, IS, IT, LI, LV, LT, LU, MT, NL, NO, PL, AT, PT, SE, SK, ES, CZ, HU, UK, CY

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Multimedia	
Audio	Support of high-definition audio for S/PDIF output with up to 7.1 channels; 7.1 audio support also via 4x audio jacks (analog)
Audio chip	Realtek ALC888
Speakers	2x built-in speakers (2 W each)
Microphone	Built-in digital array microphone
Subwoofer	1x built-in subwoofer (3 W)
Input device	Sound volume control via function key or via LightTouch™ bar
AMILOcam	
Image sensor	1.3 mega pixels webcam
Frames per second	30[5]
Features	■ Powered by Logitech® ■ Auto focus ■ Automatic brightness adjustment with status LED (blue: on, red: streaming / application on) ■ Low-light technology for great video-quality even in dark surrounding

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Input devices / Control buttons	
Power button	Located left of the keyboard, back lighted
Keyboard	Spill-proof keyboard with 85 keys, 21 key number block
Touchpad	Hidden touchpad, with left and right mouse button, touchpad disable function via function key combination (Fn+F6)
Multimedia keys	Multimedia LightTouch™ bar located on top of the keyboard to launch the following applications: ■ Silent mode (reduce noise level / fan speed, by reducing the CPU performance, office applications, Internet and DVD playback are not affected) ■ Hybrid graphics to switch between onboard graphics for extended battery runtime and external graphics for better performance ■ DVD playback ■ Skip rewind ■ Play / pause ■ Skip forward ■ Volume control
Remote Control	26-key Vista remote control, shipped in ExpressCard slot

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Hot keys	
	The following hot keys or key combinations are available ■ Fn+F1　WLAN / BT on / off ■ Fn+F2　TV-tuner on / off (depends on configuration) ■ Fn+F3　Mute on / off ■ Fn+F4　Volume down ■ Fn+F5　Volume up ■ Fn+F6　Touchpad on / off ■ Fn+F7　AMILOcam on / off ■ Fn+F8　Brightness down ■ Fn+F9　Brightness up ■ Fn+F10　Display switch ■ Fn+F11　Silent mode ■ Fn+F12　Suspend Number block 4 individually configurable quick-start application buttons (A1, A2, A3, A4)

Status indicators	
	The notebook has 3 status LEDs: ■ Power status (& suspend) Blue (always on): on; Blue blinking: stand by; None: off ■ Battery charge Blue (always on): full; Blue blinking: charging; Red blinking: < 10 % capacity ■ WLAN / Bluetooth® Blue: on; None: off

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Security	
Supervisor and user password	Yes
Kensington lock	Yes
Lid switch (hidden)	Yes

ACPI functions	ACPI 3.0 compliant for Vista requirement
	■ Power on stand by (S1 LCD off)
	■ Stand by / energy saving mode (S3 save to RAM)
	■ Hibernate mode (S4 save to disk)
	■ Off mode (S5 soft off)

Power System	
Battery[6]	
Battery type[1]	Lithium-Ion battery
	8 cells, 14.8 V / 2400 mAh (cell) / 4800 mAh (pack)
Battery runtime (idle mode)[7]	Onboard graphics: up to 4.7 hours
	Dedicated graphics: up to 3.6 hours
Battery runtime (DVD playback)[8]	Onboard graphics: up to 3.1 hours
	Dedicated graphics: up to 2.7 hours
Battery charging time (idle mode)[9]	Onboard graphics / dedicated graphics (charging 90%): up to 2.1 hours
Battery charging time (maximum active mode)[10]	Onboard graphics (charging 90%): up to 2.2 hours
	Dedicated graphics (charging 90%): up to 2.5 hours
Battery charging time (normal use)[11]	Onboard graphics (charging 90%): up to 2.1 hours
	Dedicated graphics (charging 90%): up to 2.05 hours
Battery charging time (off mode)	Onboard graphics (charging 90%): up to 2.15 hours
	Dedicated graphics (charging 90%): up to 2.1 hours

AC Adapter	Dynamic charge supported, ACPI 3.0 supported
Wide Range AC adapter	110 - 240 V AC, 50 - 60 Hz
Output	90 W with 20 V DC, 4.5 A

Energy consumption	
S0 (idle mode)	Onboard graphics: 11.15 W; Dedicated graphics: 17.30 W
S0 (max. active mode)[12]	Onboard graphics: 58.59 W; Dedicated graphics: 84.14 W
S3 (stand by / energy saving mode)	Onboard graphics: 2.05 W; Dedicated graphics: 1.56 W
S4 (hibernate)	Onboard graphics/Dedicated graphics: 0.51 W
S5 (off mode)	Onboard graphics/Dedicated graphics: 0.36 W

Noise emission	
Idle mode[13]	27.8 dBA (silent mode off)
Maximum active mode[14]	28.3 dBA (silent mode off)

Operating conditions	
Operational	5 °C to 35 °C (ambient temperature)
	10 % to 90 % relative humidity, non-condensing

Dimensions and weight	
W x D x H	438 x 294 x 43.5 (front) / 50.5 (back) mm
Weight	3.9 kg[15]

Certifications	GOST (WLAN)
	CE Marking
	R&TTE (WLAN, Bluetooth®)

Warranty	Country specific terms

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Application Software

Home office	Microsoft® Works
	Microsoft® Office Home and Student Trial
	Adobe Reader
	Windows Mail (within Vista operating system)
	Windows Calendar (within Vista operating system)
Multimedia	Nero Essentials S (CD / DVD write software)
	Vista DVD Playback Pack (DVD playback software)
	Windows Media Player (within Vista operating system)
	Windows Media Center (within Windows Vista® Home Premium operating system)
	Logitech® QuickCam® application software
	Optional[1]
	CyberLink Power DVD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive)
Internet	Microsoft® Internet Explorer
	Country specific Internet provider
Security	Norman security software solution

Accessories

Included	AC adapter 90 W
	First Battery 8 cells
	Integrated remote control
Optional	Find out more: www.fujitsu-siemens.com/accessories
Manuals	Manual (on hard disk), quick start guide, safety guide, warranty guide, recovery guide
Drivers	Updates downloadable at http://www.fujitsu-siemens.com

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[1] Depending on exact configuration. Please check at your local retailer
[2] DISCLAIMER: Up to 1 GB may not be available with 32-bit operating systems due to system resource requirements if system is preinstalled with 4096 MB RAM
[3] Shared video memory size may vary depending on configuration. Used video memory size depends on Microsoft® Windows Vista® memory management
- 1024 MB system memory enables up to 271 MB shared memory
- 2048 MB system memory enables up to 783 MB shared memory
- 3072 MB system memory enables up to 1295 MB shared memory
- 4096 MB system memory enables up to 1295 MB shared memory
[4] An adapter is needed for the following card formats: RS-MMC, MMC-Micro, miniSD, MicroSD, SDHC, MS-Duo, MS-PRO Duo, MS-Pro HG, MS-Pro HG Duo, M2
[5] AMILOcam frame rate can vary significantly depending on the used software application
[6] DISCLAIMER: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Recharge time varies depending on usage. The recharge capacity may decrease after some months so that the battery lifetime as well as operating time can not be assured for the whole lifetime of the notebook
[7] Tested with Battery Mark 4.0.1 ("power saver mode")
[8] DVD playback tested with Vista DVD playback
[9] Tested without test program
[10] Tested with 3DMark 2006
[11] DVD playback tested with Vista DVD playback
[12] Tested with 3DMark 2006
[13] Tested according to ISO 7779 and ISO 9296
[14] Tested with QAFE 8.01 / 2. sieve.exe (CPU stress test) / Diskload.exe according to ISO 7779 and ISO 9296
[15] Weight may vary depending on actual configuration

The configuration described in this document is generic only and non-binding. For the exact configuration of your AMILO, please contact your licensed dealer.

Company stamp